ESTUARINE AND COASTAL WATER DYNAMICS CONTROLLING SEDIMENT MOVEMENT AND PLUME DEVELOPMENT IN LONG ISLAND SOUND

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1 May 1973

Type 1 Progress Report for Period 1 March 1973 to 30 April 1973

Prepared for:

Goddard Space Flight Center
Greenbelt, Maryland 20771

Publication authorized by the Director, U.S. Geological Survey

a. Title: Estuarine and Coastal Water Dynamics Controlling Sediment Movement and Plume Development in Long Island Sound

ERTS-A Proposal No.: SR 342 E

b. GSFC ID No. of P.I.: IN 395

c. The investigation is progressing on schedule.

d. During the period, tide gage data in Long Island Sound and the Connecticut Estuary were collected and computer processed for use in plume analysis. Tidal interchange was computed for the Connecticut Estuary for the period through March 30, 1973. Freshwater inflow to Long Island Sound was continually monitored at 23 gaging stations in Connecticut and New York.

Data for the spring freshet period (March through May) are being reviewed and will be subjected to analysis on the SRI Electronic Satellite Image Analysis Console. Compilation of ground truth data for this period is in progress.

e. Nothing to report 5F

f. Ruggles, Jr., F.H., 1973, Plume development in Long Island Sound observed by remote sensing (ERTS-1): Symposium on Significant Results Obtained from ERTS-1; NASA/Goddard Space Flight Center, Greenbelt, Md.

g. None

h. None

i. None

j. None

k. Not applicable